UTM

MJIIT

SESSION 2024/2025

SEMESTER 1

COURSE CODE

SECR1213 – Network

Communications

Task 1

STUDENTS

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Group7

Network Floor Plan Design Task 1 Report

Project Title: Network Floor Plan Design

Group Name: Group 7

Date of Submission: October 16, 2024

1. Group Members and Roles

The team members contributed in the following roles:

Liu Wanpeng: Ground floor design, responsible for the integration service area and meeting rooms layout. Assisted in the planning and finalization of all floor plans, providing input on layout efficiency.

Zhao Wei: First floor design, responsible for general purpose labs and video conferencing room layout.

Cheng Siyuan: Null

Thamer Alharbi: Second floor design, responsible for the IoT and network lab layouts.

2. Suggested Floor Plan

(1)Ground Floor Plan   Designed by Liu Wanpeng

The ground floor layout consists of several key functional areas, including a meeting room, rest area, integration service area, and a video conferencing room.

1. Rooms and Facilities:

Integration Service Area: Located near the entrance for quick access to technical services and hardware integration.

Meeting Room: Centrally positioned for team discussions and collaborations.

Rest Area: Located near the center for convenience and ease of access.

Video Conferencing Room: Equipped for virtual meetings and fitted with appropriate audiovisual systems.

Men's and Women's Toilets: Located next to the staircase for easy access.
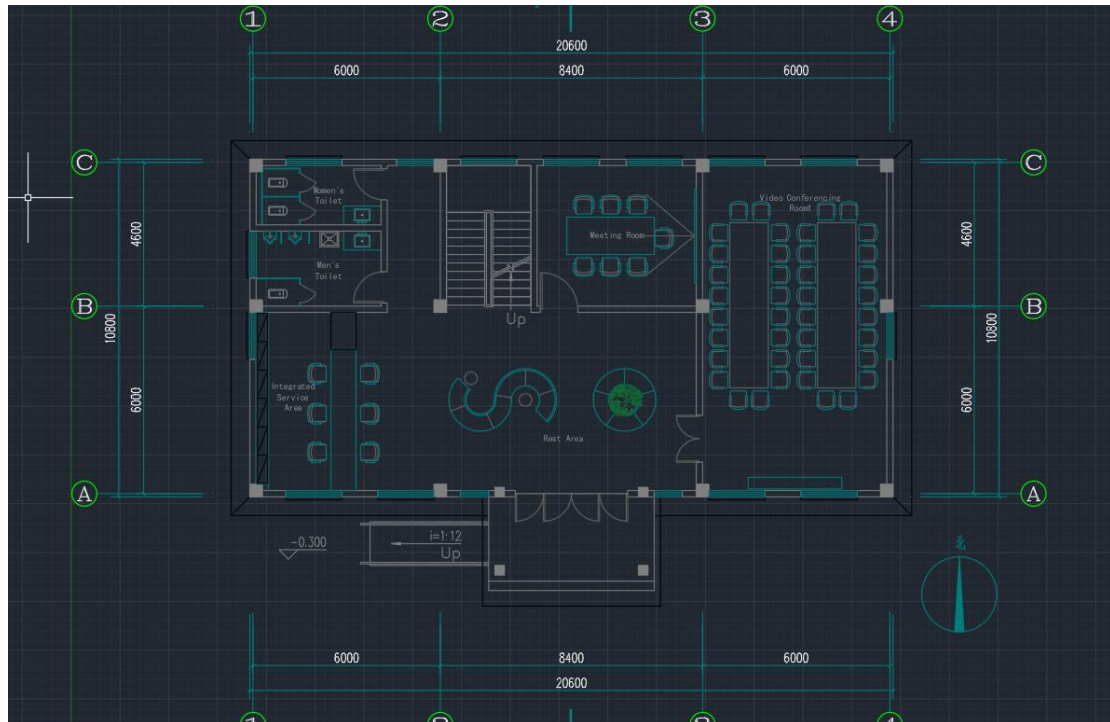
2. Workstations and Equipment:

The ground floor provides several workstations for team discussions and equipment setups, particularly in the meeting room and video conferencing room.

3. Floor Plan Dimensions:

The total floor area is 20,600mm by 10,600mm, and the design follows a scale of 1:100.

4. Creativity:

The circular design of the rest area adds a creative and functional space, promoting relaxation while maintaining a professional environment.

(2)First Floor Plan   Designed by Zhao Wei

The first-floor layout focuses on laboratory functions and administrative spaces, providing areas for research and office work.

1. Rooms and Facilities:

Multi-purpose Storage Server: A room dedicated to core networking and server storage.

Teacher's Office: A space for administrative tasks, located near the labs for ease of coordination.

General Purpose Lab: A large, flexible lab designed for research and project work, accommodating various workstations.

Video Conferencing Room: Designed for virtual meetings, similar to the ground floor.

Men's and Women's Toilets: Located near the staircase for easy access.
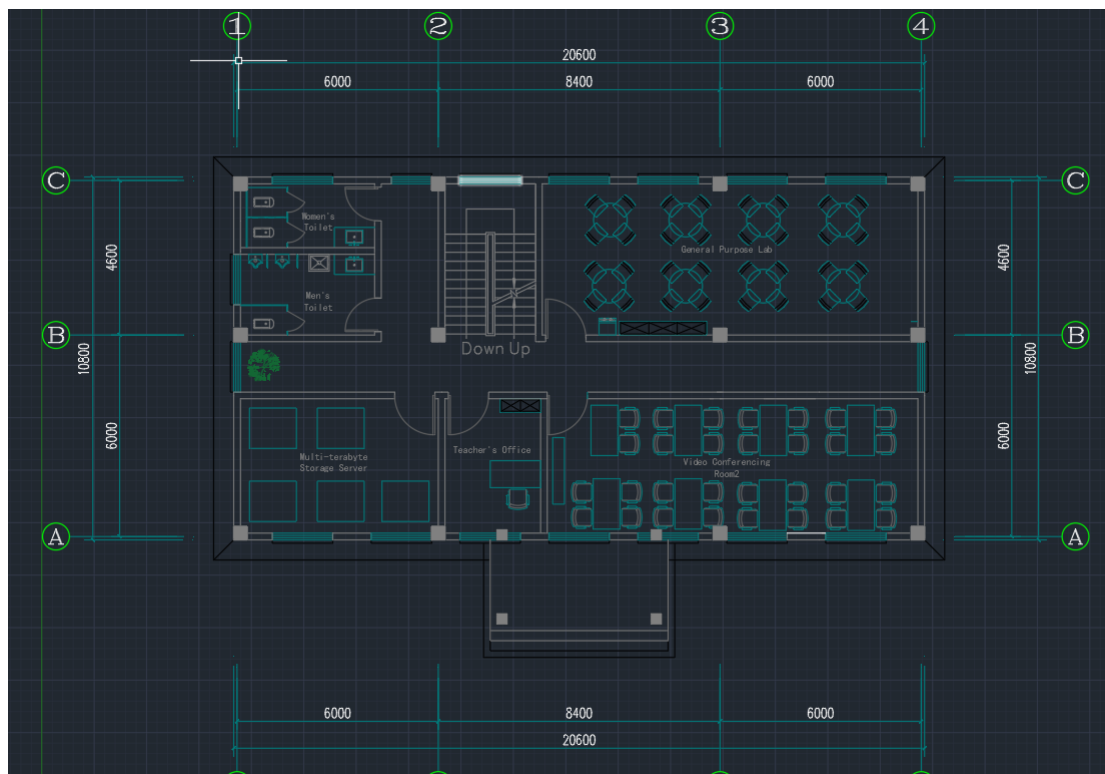
2. Workstations and Equipment:

The first floor provides ample workstations in the general   purpose lab and video conferencing room to accommodate various users.

3. Floor Plan Dimensions:

The floor dimensions are 20,600mm by 10,600mm, following the same scale of 1:100.

4. Creativity:

The layout is functional, with well-organized workstations in the general purpose lab, promoting collaboration and efficient use of space.

(3)Second Floor Plan   Designed by Thamer Alharbi

The second-floor layout focuses on advanced technological labs, including the IoT Lab

and Network Lab, with provisions for teaching and research.

1. Rooms and Facilities:

      IoT Lab: Dedicated space for IoT research and development, featuring flexible seating arrangements for team projects.

      Teacher's Office: Located near the IoT Lab, allowing for easy supervision and coordination.

      Network Lab: A dedicated space for network configuration and research.

      Men's and Women's Toilets: Conveniently located near the staircase for easy access.

2. Workstations and Equipment:

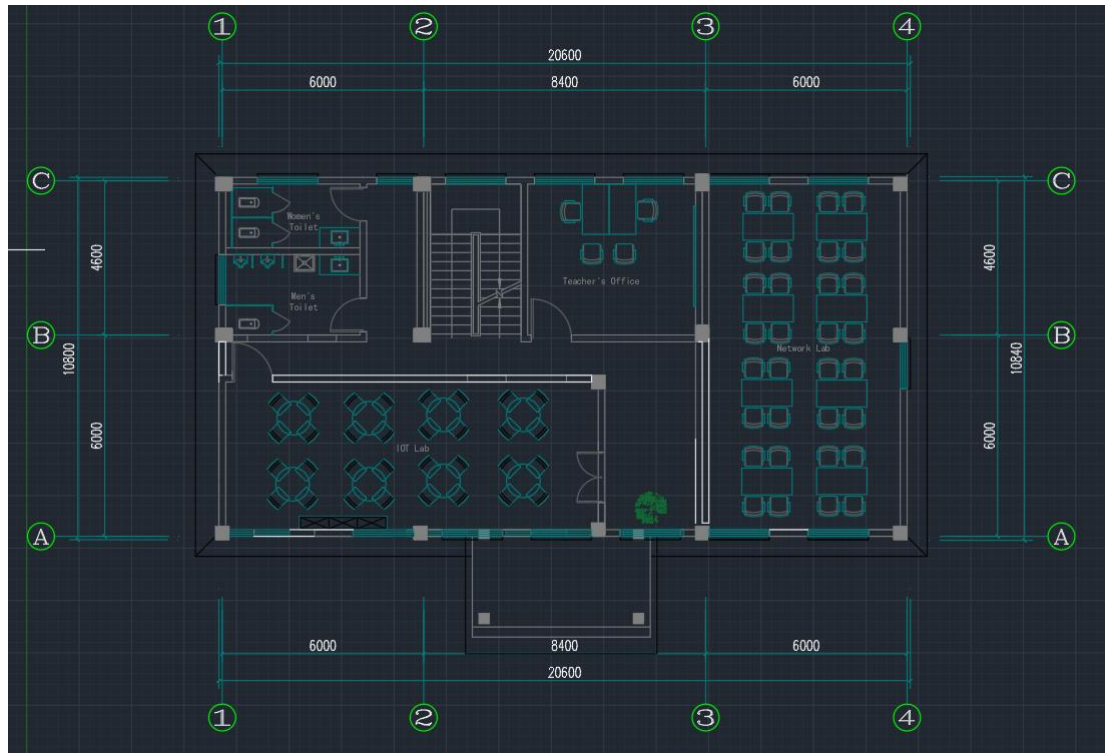   The second floor features several workstations in the IoT and Network Labs, supporting research and development.

3. Floor Plan Dimensions:

      The total area is 20,600mm by 10,600mm, with the scale set at 1:100 for consistency with the other floors.

4. Creativity:

      The IoT Lab's flexible seating arrangement encourages collaboration, while the Network Lab is designed to maximize space for network configurations and experiments.

10/16/2024

3. Meeting Minutes

Meeting 1 (October 10, 2024): Role assignment and discussion of initial ideas.

Attendees: All members(Except Chen)

Decisions: Agreed on each member's responsibilities for the project.

Meeting 2 (October 12, 2024): Review of floor plan designs and feedback.

Attendees: All members(Except Chen)

Decisions: Provided feedback on each design and adjusted layouts for efficiency.

Meeting 3 (October 14, 2024): Final review and preparation of the report.

Attendees: All members(Except Chen)

Decisions: Finalized the report and ensured that the floor plans were clear and aligned with the assignment requirements.

5. Conclusion

In this project, we successfully designed a three-floor network floor plan, incorporating creative layouts and functional spaces for different technological activities. The project followed the case study requirements, ensuring that each floor was designed to accommodate workstations, labs, and conference rooms while maintaining clarity and scalability.